



Features


- ✧ For IF SAW filter
- ✧ Single-ended operation
- ✧ Ceramic Surface Mount Package
- ✧ Small size
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	95	-
Insertion Loss	dB	-	5.5	7.3
2 dB Bandwidth	MHz	0.18	0.24	-
3 dB Bandwidth	MHz	0.22	0.26	-
5 dB Bandwidth	MHz	-	0.28	0.5
20 dB Bandwidth	MHz	-	0.40	0.7
30 dB Bandwidth	MHz	-	0.53	1
35 dB Bandwidth	MHz	-	0.58	1.4
Group Delay($f_0 \pm 0.09\text{MHz}$)	nsec	-	1600	1800
Ultimate Rejection	$f_0 \pm 0.7 \sim f_0 \pm 4\text{MHz}$	dB	35	-
	$f_0 \pm 4\text{MHz}$	dB	40	-
Material Temperature coefficient	KHz/°C	0.095		
Substrate Material	-	AT QZ		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1C		
Package Size		SMD13.3*6.5A		

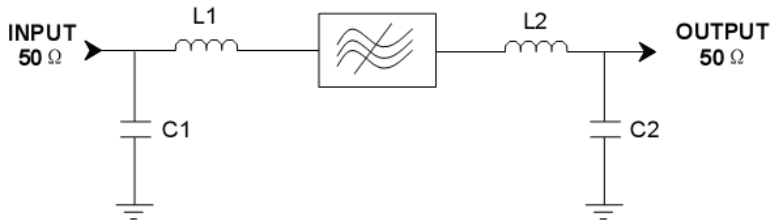
Notes:

1. All specifications are based on the test circuit shown;
2. In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
4. This is the optimum impedance in order to achieve the performance show.

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBS09507	
		Rev. Date	2013-05-27	
		Ver.	1.0	Page

Matching Configuration

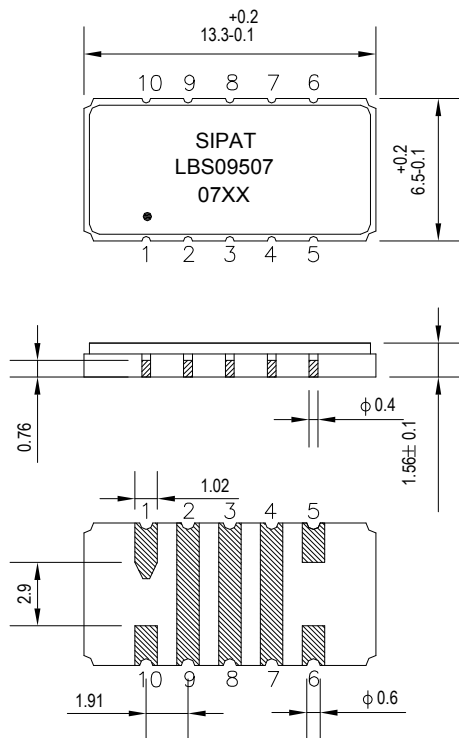
手动测试



L1=L2=180nH
C1=56pf C2=47pf
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 1
Output 6
Ground All Others

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBS09507: Part Number
- 4) 07XX: Date Code

Package: SMD13.3*6.5A

Unit: mm



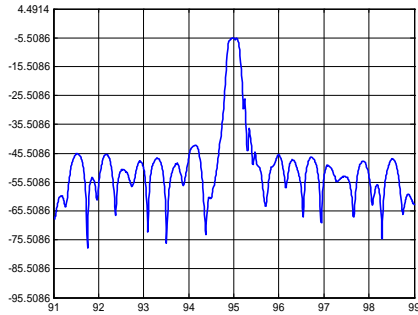
SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBS09507	
Rev. Date	2013-05-27	
Ver.	1.0	Page 2/3



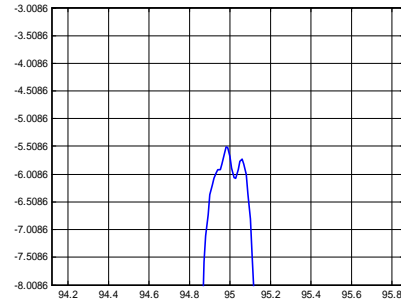
Typical Performance

Frequency Respond



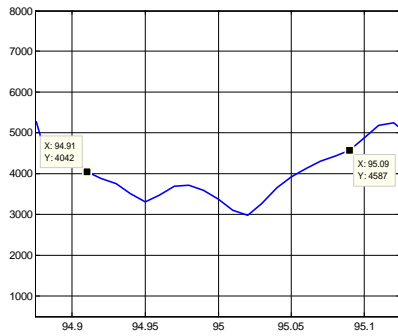
Horizontal: 1MHz/Div Vertical: 10dB/Div

Passband Respond



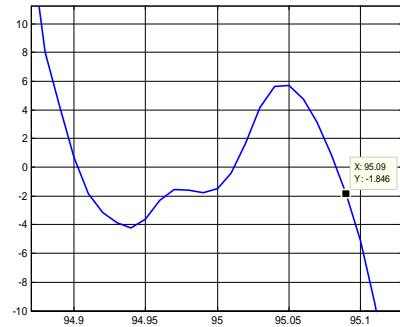
Horizontal: 0.2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation($f_0 \pm 0.09\text{MHz}$)



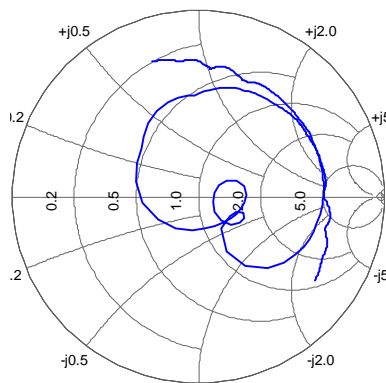
Horizontal: 0.05MHz/Div Vertical: 1000ns/Div

Phase Linearity($f_0 \pm 0.09\text{MHz}$)

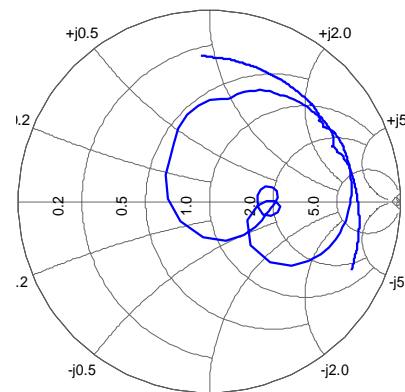


Horizontal: 0.05MHz/Div Vertical: 2deg/Div

Smith Chart S11



Smith Chart S22



SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBS09507	
Rev. Date	2013-05-27	
Ver.	1.0	Page 3/3